

## Color, Black-and-White TV's Offered Credit Union Members At Annual Meet

Better mark Thursday, January 18 as a red-letter day now!

Y-12's Credit Union has set aside that time as Annual Meeting time. The credit association's annual meeting will be held Thursday, January 18, at 7:30 p.m. at Jefferson Junior High School's auditorium, Oak Ridge.

And read this . . . two portable T.V. sets will be given away as prizes. **And one of them is a color set!** Only members are eligible for drawings, and you must be present to win.

A short business meeting will be held. Three board members are to be elected this year . . . as W. R. McGill, chairman; P. L. Holland and Tom Pappas prepare a nomination slate for membership approval.

Credit Union members will receive an annual report on activities in the Credit Union for the past year.

With loan shark activities in the news again in this area, and with the solid, sound financial standing of the credit organization, Y-12ers take particular pride in their credit union. The member-owned, member-run credit group has loaned in excess of \$50 million to members in the past 17 years!

That accounts for a lot of homes, appliances, boats, vacations, education, hobbies, trips, little extras that make life brighter, and many other worthwhile projects. (One Y-12er, a faithful member of long standing, once borrowed money from the Credit Union to pay a champion blooded dog!)

The Y-12 Credit Union belongs exclusively to its members. It is designed solely for the convenience and use of members. And it is up to members to administer it.

Remember, the Credit Union is yours, Use It!

## Two Courses For Secretary's Improvement Are Offered Beginning With Winter Term

Two classes will be offered during the Winter Quarter for those preparing for the Certified Professional Secretary Examination to be given in May, 1968, or for those interested in self-improvement.

CPS Advanced Shorthand will be taught in the Adult Education Program at the Oak Ridge High School by Yvonne Lovely, CPS. Classes will meet on Tuesday and Thursday from 6:30 to 8:30 p.m.

Office Administration 1110 (Business Administration) will be offered by the University of Tennessee Evening School at the High School also. Three quarter-hours university credit will be given for satisfactory completion of the course. These classes meet Tuesdays from 6:30 to 9:20 p.m.

Both classes are sponsored by the Oak Ridge Chapter of the National Secretaries Association (International) and are approved under the Carbide Educational Assistance Program. Whether you are interested in achieving professional status or in taking advantage of the program for self-improvement, these classes will benefit you.

Registration for the Adult Education Program classes will be from January 2 to January 5, 6 to 9 p.m. Registration for the

U.T. classes will be January 3 through 4 from 5:15 to 8 p.m. at the Oak Ridge High School.

Further information about the classes or about the CPS Program, may be obtained from Mabel Tyer, Building 9704-2, Y-12, telephone extension 3-7121.

## Sirens Will Be Tested This Sunday

A regularly scheduled quarterly siren test of alarm system will be made Sunday, January 7, at 9 a.m. This test will be the attack warning (the wail of the siren, up and down for three minutes.)

Sirens on Buildings 9201-3, 9996, 9204-4 and 9213 will be tested. The test will cover "Attack Warning" only.

Employees who are working Sunday need not leave their work stations. Prior to the tests, an announcement will be made to personnel in the plant over the p.a. system.

## Current Badge Swap Goes Thru Wednesday

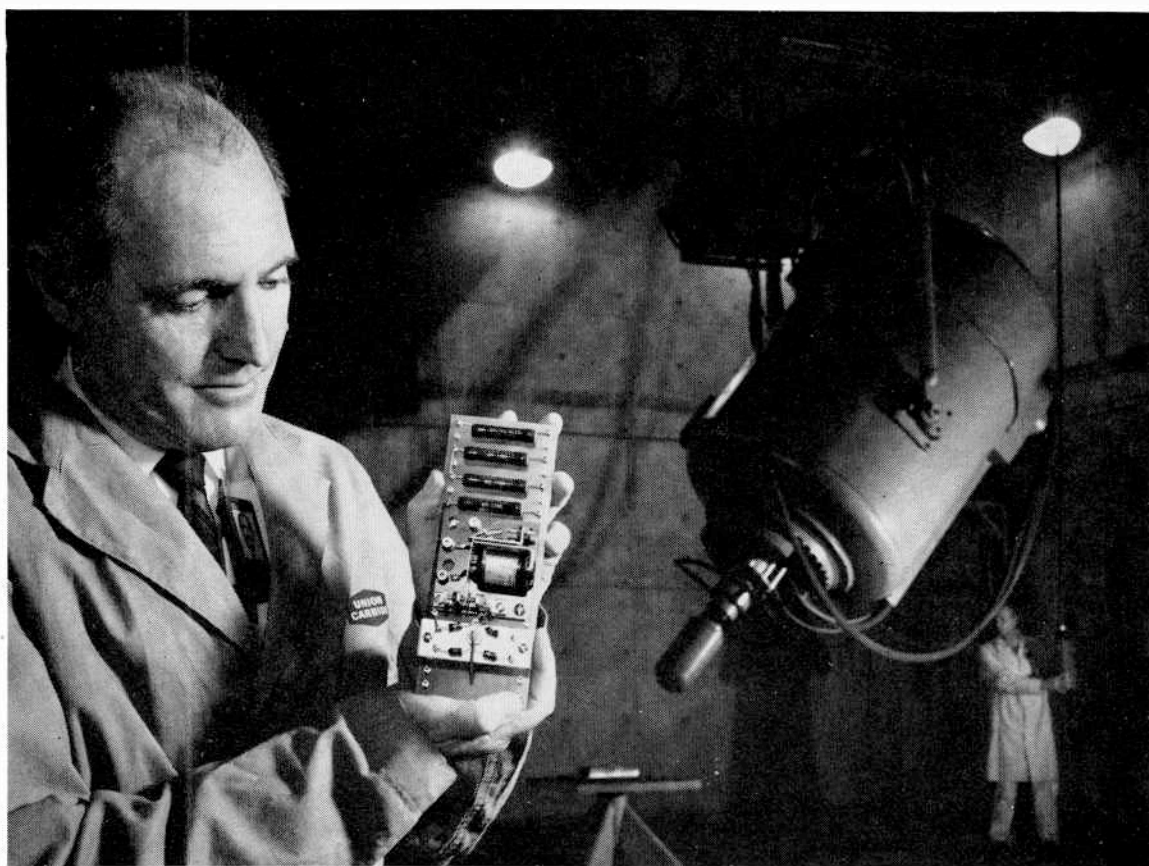
The current badge exchange will continue through next Wednesday, January 10. Y-12ers should be swapping their old badges for the new ones with a solid blue border.

The badges are at the self-service racks in each portal, arranged in numerical order. Security says please put your old badge back in the slot that your new one comes from.

## MIT's Dupree Speaker At Thermonuclear Seminar

Professor Thomas H. Dupree, Massachusetts Institute of Technology, is guest speaker at this week's Thermonuclear Division seminar. He will speak on "Turbulence."

The seminar is set for tomorrow, Thursday, January 4, at 9 a.m. in the TD Conference Room, Building 9201-2.



E. W. PIPES, ELECTRICAL AND ELECTRONICS, is seen with his voltage sensing device which has aroused the attention of X-ray users throughout the United States. The device is used to monitor the power line on an X-ray generator to prevent accidental radiation exposure to personnel. In the background is Y-12's two-million volt X-ray.

## Desalting Seas Film Available

A new film, produced by the Atomic Energy Commission's Oak Ridge National Laboratory, to explain new methods of purifying saline water through nuclear energy, has been made available for loan here.

The 17-minute, color film entitled "Desalting the Seas," describes the methods, problems and goals of nuclear desalting in non-technical terms suitable for the general public, including high school students and service clubs.

The film contrasts the growing shortage of water in a famine-threatened world of expanding population with various historical methods of desalting sea water, including the new technology of nuclear desalting. Particular emphasis is placed on current work on large-scale dual purpose nuclear-electric desalting plants which will not only purify water, but will also produce large amounts of electric power at the same time.

## Sixth Lost-Time Accident Recorded

Just before the old year died, Y-12 recorded its sixth lost-time accident of the year. An employee in Reproduction caught his middle finger on his left hand in a multitilt machine, almost amputating the tip.

His injury required hospitalization for an undetermined time.

The accident occurred on December 28, and brought to an end a string of accident-free days at 89 . . . or approximately 2,689,000 man-hours.

The total value for 1967 safety awards stands at \$9.

A resume of the 1967 safety picture in Y-12 will be a feature in a near issue of the Bulletin.

## Ed Pipes' X-Ray Sensor Unit Arouses Interest From All Over

A voltage sensing device developed by Y-12's E. W. Pipes to protect personnel from accidental exposure due to X-ray unit malfunction continues to arouse the interest of X-ray users throughout the nation. The development is an excellent example of how technology originating within a U.S. Atomic Energy Commission installation can benefit those in the outside world.

Information concerning the development originally was released in October, 1966. Since that time, the news item has been published in a number of scientific journals and newsletters.

### Information Sought

As a result, Y-12 has received inquiries from some 70 research laboratories, industrial plants, hospitals and government agencies for additional information on how to obtain or to build such a device. One agency, a state board of health, requested 200 copies of the technical report authored by Pipes which details the fabrication of the sensor. The agency will send the report to X-ray installations throughout that state. (Since Y-12 can accommo-

date only token requests for reprints, the order for multiple copies was forwarded elsewhere.)

The object of all this attention is a gadget not much larger than a man's hand which can be attached to the primary voltage line of an X-ray generator. If the device detects a voltage on the line when the generator is supposed to be non-operating, the device triggers an alarm—horn, buzzer or flashing light—to warn personnel. Its sensitivity range, normally from 10 to 460 volts, can be adjusted for an individual machine.

### 'Fail-Safe' System

The sensor was developed as a fail-safe system to avoid the exposure of personnel to X-ray radiation when the X-ray unit is supposed to be in the "off" condition. Since X-ray units emit a thinly-focused radiation beam, it is possible that such radiation might escape detection by radiation monitoring units stationed in the room. The voltage sensor solves the problem by monitoring the line which provides power to the X-ray generator.

The sensor also can be used as a safety monitor on power supplies for neutron generators, electron beam welders and furnaces, and high voltage test equipment.

Y-12 does not sell the voltage sensor units to outside installations, but the information on development is available to bona fide laboratories, firms, hospitals, agencies, etc., concerned with X-ray safety.

Inquiries concerning the voltage sensor should be directed to the Y-12 Plant Public Information Office, Oak Ridge, Y-12 Plant, P. O. Box Y, Oak Ridge, Tennessee, 37830.

## SAFETY SCOREBOARD

**The Y-12 Plant Has  
Operated  
Five Days Or  
89,000 Man-Hours  
(Unofficial Estimate)  
Through January 1  
Without a Disabling  
Injury  
Safety At Home  
At Work, At Play**

## ISA Meeting Is Set Wednesday At Holiday Inn

The monthly meeting of the Oak Ridge Section of the Instrument Society of America will be a joint meeting with the Tennessee Society of Professional Engineers and the American Society of Tool and Manufacturing Engineers. It is set for next Wednesday, January 10, at the Holiday Inn, Oak Ridge. A social hour begins at 6 p.m., with dinner at 6:45.

Edward M. Dougherty, vice president and deputy managing director, ARO, Inc., Tullahoma, will speak on "Can engineering survive as a profession with big government and big industry?"







# The Bulletin

Published Weekly For The  
Y-12 Employees Of  
UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

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American Association Industrial Editors

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## Holidays Slow Table Tennis Play

Only a couple of matches were squeezed in during the holidays in the Table Tennis Leagues. In the X League it was Geoffrey Newman over Roy Huddleston for three games . . . and Bill Motley over Bill Foutz for the full count.

X League standings:

Player	W	L
Geoffrey Newman	12	0
Herve Derrien	5	4
Lloyd Wyatt	5	4
Roy Huddleston	6	6
Bill Motley	6	6
Herb Mook	3	6
Jerry Keyes	1	5
Bill Foutz	1	8

Gordon Brewer downed Francois Kertesz for two games in the only action in the Y League.

Y League standings:

Player	W	L
Bob Coveyou	10	2
Paul Kasten	5	1
Gordon Brewer	9	3
Al Norris	6	6
Ed Gambill	4	5
Fred Wetzel	3	6
Art Weinberger	2	4
Rokuro Oyamada	1	5
Francois Kertesz	2	10
Bob Brown	0	0

The Z League reported no action.

Z League standings:

Player	W	L
Bob Smith	6	0
Joe Lewin	5	1
Bill Hackett	7	2
Dave Allen	3	3
Jim Hallau	0	3
Tudor Boyd	0	3
Winfred Collins	0	9
A. B. Meservey	0	0

## Coast Guard Will Offer Free Boating Courses

The United States Coast Guard Auxiliary, Flotilla 26-4 will conduct a free eight-week lesson course in small boat handling and water safety. The course begins tomorrow, Thursday, January 4, in the Rose Room, Kingston.

Anyone interested in the free instructions should appear at 7:30 tomorrow.

The initial class will deal with an introduction to pleasure boating and maneuvering. Y-12 instructors include Ben Butler, Joe Barkman and Gus Angele.

The eight-week course will meet Wednesday, January 10; Tuesday, January 16; Friday, January 19; Wednesday, January 24; Wednesday, January 31; and Monday, February 5.

## Kids Crowd Christmas Parties Despite 'Bug'

The happy sounds and sights of Christmas were very much with us at the Christmas parties held Thursday, December 21.

The crowds were cut considerably by the 'bug' that was going around during the holidays, but the kids still came.

The accompanying pictures show some of the happy faces present.

## McSsprays Win Big For Mixed Crown

In position roll-off finals, the Mixed League crowned the McSsprays champions of the league's first half, after their four-point defeat of the Hits & Misses. The Rollers downed the Alley Cats for three, as did the Twisters past the Mustangs. The Goofers and Roses 'N Thorns shared two.

In final action, Spence Ferguson, Twisters, took a 237 scratch, 272 handicap game. Ernest Ely, Mustangs, mustered a 547, 617 series. Gwen McLaughlin, McSsprays, tallied with a 224 single game, 261 handicap single . . . series of 532 scratch, 643 handicap. The Twisters were high in singles, 670 scratch, 832 handicap. The McSsprays rolled series of 1911 scratch, 2364 handicap.

First Half Standings:

Team	W	L
McSsprays	35	25
Goofers	32	28
Rollers	32½	27½
Hits & Misses	33	23
Roses 'N Thorns	32	28
Alley Cats	27	33
Mustangs	26	34
Twisters	22½	37½

Not even pausing for the holidays, the Mixed bowlers hit the alleys again last week to open the season's last half. Two teams took big four-point wins as the Hits & Misses hit the Alley Cats, and the Mustangs mauled the Twisters. The McSsprays took three from the Goofers and the Rollers rolled likewise over the Roses 'N Thorns.

Virginia Newby, Goofers, gained a 180 scratch single, 226 handicap single. Gwen McLaughlin, McSsprays, rolled a 484 scratch series; while Mabel Tyer, Hits & Misses, posted a 611 handicap series.

Chris Mooney, Alley Cats, rolled a 221 scratch, 248 handicap single. His series of 564 scratch, 645 handicap were high also.

Teams saw the Rollers post high singles 701 scratch, 843 handicap . . . and series of 1864 scratch. Their 2297 handicap series was tied with the Mustangs.

2nd half standings:

Team	W	L
Hits & Misses	4	0
Mustangs	4	0
McSsprays	3	1
Rollers	3	1
Goofers	1	3
Roses 'N Thorns	1	3
Twisters	0	4
Alley Cats	0	4

## Rounders Win C First Half Title

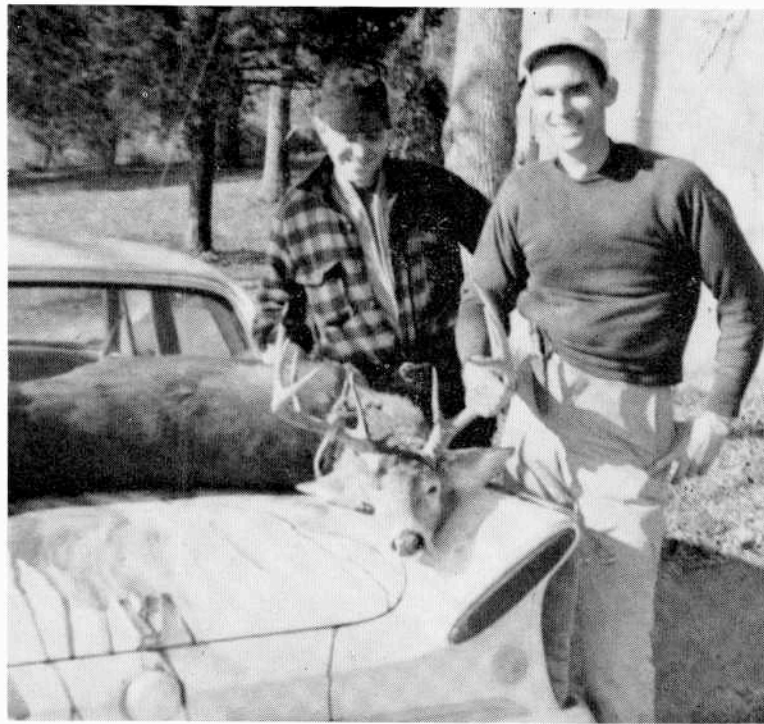
The big Rounders took the C League's roll-off recently, to capture the league's first half crown. They downed the Fireballs for three. The King Pins took the Big Five for three, and the Badgers bested the Sunflowers by the same score. The Rodders rammed through the Royal Flush, and the Invalids took the HiLifers for three also. The only big win of the night went to the Rollmasters rolling over the Parbusters.

Lloyd Wyatt, Rollmasters, rolled a single game 231 scratch, 266 handicap. Norm Jarvis, Big Five, rolled his fourth 600 series in a row . . . with a giant 618. C. M. "Shortie" Bryant, Rounders, rounded out with a 675 handicap series.

The Fireballs rolled an 886 scratch single count . . . and the King Pins took a 1046 handicap single total. The Rounders were best on series, however . . . 2541 scratch, 2982 handicap.

Final 1st half standings:

Team	W	L
Rounders	39	21
Fireballs	37	23
Big Five	35	25
King Pins	35	25
Badgers	31	29
Sunflowers	29	31
Rollmasters	29	31
Parbusters	27	33
Royal Flush	26	34
Rodders	25	35
Invalids	24	36
HiLifers	23	37



IN A PRE-CHRISTMAS deer shoot over near Sunbright, W. W. Randles, Chemical Engineering Development, right, gets a 12-point buck, which field-dressed out to weigh 170 pounds. Hunting companion Gary Hennon, an ORNL employee, is seen above with Randles.

## 3 Basketball Tilts Get Under Wire

Only three basketball games were put on the record books during the holidays, as Monday, December 18, saw action.

The Bombers with outstanding defense lowered their boom on the Combustion team 54 to 31 . . . Fred Davenport leading the rebounding for the winning team. Jim Shoemaker led scoring for the victors with 10 points.

For the losers it was Charles Kirkpatrick with 11 points, and Wallace Johnson as best man on the boards.

The second game was a close thriller . . . the Falcons beating the Sharp Shots 47 to 45. John Hawthorne, 13; and Churchill Moore, 12; led scoring for the victors. Bob McCulley shot 20 big ones for the Sharp Shots.

The SS team rallied for 23 big points in the final period, only two short of a tie . . . and possible overtime.

Y-12's Eagles defeated the Chargers 52 to 45 in final action.

Bill Kirksey led the Y-12 aggregate with 18 big ones . . . Larry McDonald had 13. This was an aggressively fought game, cleanly fought and close all the way. Rich Boughner dominated the boards for the Eagles, Ken Dirksen for the Chargers. Leading the Chargers in scoring was Ray Leffler with 15.

League standings follow:

Team	W	L
Health Physics, ORNL	5	0
Bombers, ORNL	4	0
Eagles, Y-12	5	1
TK's, ORNL	3	1
Chargers, Y-12	3	2
Combustion, ORNL	1	3
Radioisotopes, ORNL	1	3
K-25 Falcons	1	3
Sharp Shots, ORNL	1	4
Atoms, Y-12	0	3
Bat Boys, Y-12	0	4



"Couldn't find the one inch wrench, Mr. Pitts, so I brought you two half inch ones."

## Recreation



Monday, January 8

BOWLING: C League, 5:45 p.m., Ark Lanes. 2nd half begins.

TABLE TENNIS: 7 p.m. Oak Ridge Wildcat's Den.

PHYSICAL FITNESS: (For Women) 7:30 p.m. Oak Ridge High School Girls' Gym.

BASKETBALL: Beginning 6:30 p.m., Oak Ridge High School Gym. Radioisotopes vs. Sharp Shots; Bombers vs. Eagles; Health Physics vs. Chargers.

Tuesday, January 9

PHYSICAL FITNESS: 7:30 p.m. Oak Ridge High School Gym.

Wednesday, January 10

BOWLING: Mixed League, 8 p.m., Ark Lanes.

BASKETBALL: Beginning 6:30 p.m., Oak Ridge High School. Combustion vs. Bat Boys; TK's vs. Atoms; Radioisotopes vs. K-25 Falcons.

Thursday, January 11

BADMINTON: Informal Play, Employees and Spouses, 7:30 p.m., Jefferson Junior High School Gym.

BOWLING: Classic League, 5:45 p.m., Ark Lanes.

VOLLEYBALL: Beginning 6:30 p.m., Oak Ridge High School. Court A: Mix Ups vs. Charley Browns; Naughts vs. Old Men; Ecobums vs. Neophytes. Court B: Set Ups vs. Dirty Half Dozen; K-25 Hawks vs. Beavers; Mountaineers vs. K-25 Gashouse Gang.

## Litterbugging Hunter May Be Ultimate Loser

The hunter who doubles as a litterbug is a spoilsport. Indiscriminate littering is resulting in hunting grounds being closed, and in some cases, may actually be harmful to game, according to a 50-state survey of fish and game departments just completed by Keep America Beautiful, Inc., the national litter-prevention organization.

Thirteen states reported that land had been closed to hunters because of littering. In North Dakota, it is reported that 200 sites, comprising some 50,000 acres, have been closed; in Connecticut 3,500 acres a year; 10,000 acres in West Virginia.

## All Stars Tie With Has Beens For Classic Top

The Has Beens and All Stars tied for the Classic League's bowling crown for the first half. Only one-half point behind was the Bumpers . . . and only one behind were the Rebels and Swingsters.

The All Stars moved up with a four-point win over the Markers, while the Has Beens shared two with the Pinbusters.

The Smelters took the only other sweep of the end of the first half . . . rolled December 21.

Winning three it was the Bumpers over the Rebels, the Swingsters past the Rippers, the Playboys over the Eightballs, the Splinters past the Cubs and the Eagles over the Tigers.

Bill Stephens, Bumpers, tossed a 227 scratch single; Otto Briscoe, All Stars, rolled a 253 handicap game. Stephens' series of 587 scratch, 650 handicap were high.

The Bumpers were high on scratch counting . . . singles of 907, series of 2619 . . . while the All Stars bested the field in handicap rolling, singles of 1020, and series of 2966.

First Half standings:

Team	W	L
Has Beens	40	20
All Stars	40	20
Bumpers	39½	20½
Rebels	39	21
Swingsters	39	21
Playboys	31	29
Tigers	29	31
Splinters	29	31
Smelters	29	31
Markers	28½	31½
Eightballs	28	32
Eagles	26	34
Pinbusters	25½	34½
Rippers	25	35
Cubs	23½	36½
Screwballs	8	52

Opening the season's second half last week, the Swingsters won the only four-game toss of the night . . . past the Pinbusters.

Raking in three it was the All Stars over the Rebels, the Bumpers by the Cubs, the Playboys past the Tigers, the Splinters safely by the Rippers, the Markers beyond the Screwballs, and the Eagles over the Smelters. The Has Beens and Eightballs shared two.

J. E. Morgan, Swingsters, posted a 235 single game. Jack Cowen, Markers, marked a 261 handicap game. Sewell Brown, Has Beens, scored 616 scratch, 670 handicap series.

The Eagles were superior in singles . . . 925 scratch; the Playboys pushed a 1102 handicap single count into highs. The Swingsters took 2580 scratch series . . . and the All Stars topped out with 2978 handicap series.

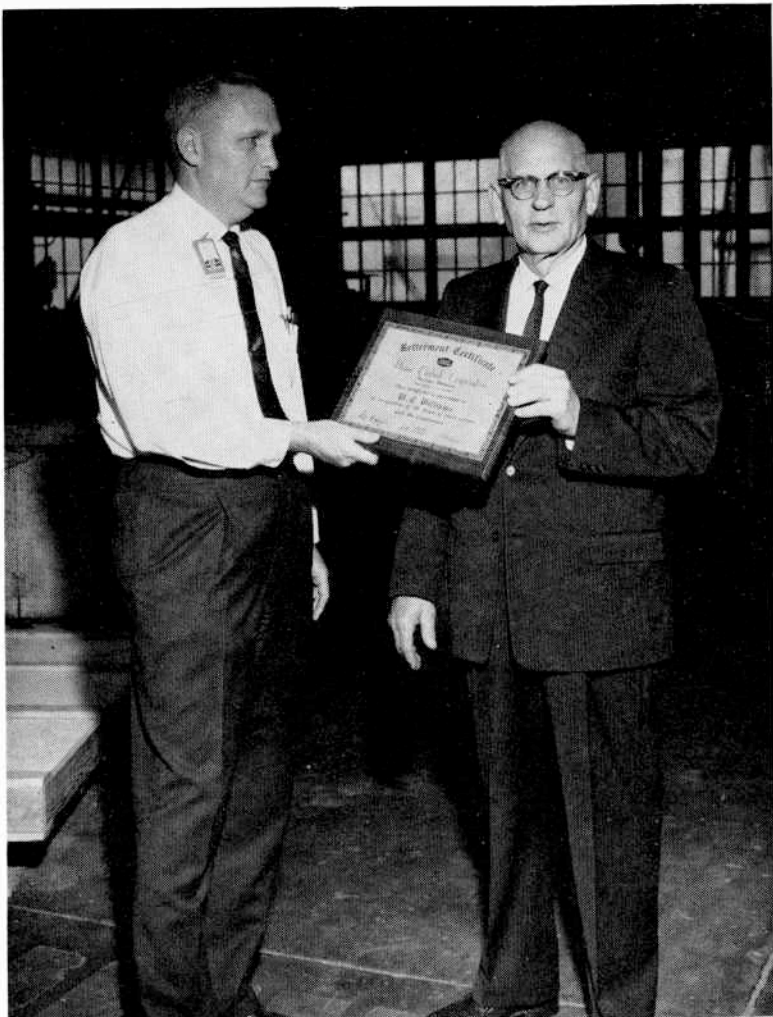
League standings follow:

Team	W	L
Swingsters	4	0
All Stars	3	1
Bumpers	3	1
Playboys	3	1
Splinters	3	1
Markers	3	1
Eagles	3	1
Has Beens	2	2
Eightballs	2	2
Rebels	1	3
Tigers	1	3
Smelters	1	3
Rippers	1	3
Cubs	1	3
Pinbusters	0	4

## The Muskie—And Pike They Are Not The Same!

The muskellunge is not a northern pike . . . as stated recently in the Bulletin. Despite erroneous conceptions in this area, the two species are different. The northern pike has a cheek completely covered by scales, and is spotted with light spots on a dark background. The muskie has scales only on the upper half of its cheek and is spotted with dark spots on a light background. The biggest pike ever caught in Minnesota weighed more than 45 pounds . . . the largest muskie more than 46 pounds.





**WILLIAMS WISHES WILLIAMS WELL** . . . Walt Williams congratulates William Williams, right, on his retirement last week from Y-12. The retiring Williams received a handsome metal on wood plaque for his 16 years of loyal service to the company. The retiree lives at Route 4, Powell.



#### DAWSON-BRUMMETT

Mr. and Mrs. John T. Brummett announce the marriage of their daughter Miss Ginger Lee Brummett to Airman First Class Wayne David Dawson, Friday, December 15. The marriage took place at Lincoln Park Baptist Church, Knoxville.

The bride wore a day length dress of white lace over crepe. She carried a white Bible centered with a white orchid.

Mrs. Jack Roach was the bride's only attendant, and she wore a green velveteen dress and carried a white muff with a poinsetta.

The groom is the son of Mr. and Mrs. Wayne J. Dawson, Walnut Lane, Route 4, Clinton.

Mr. Dawson served as his son's best man.

The bride is employed by the Apparel Corporation of America, and the groom is stationed with the U. S. Air Force at Grand Forks Air Force Base, North Dakota.

The groom's father is in Y-12's Buildings, Grounds and Maintenance Shops.

#### Oxford's Stamp Guest At Physics Seminar

This week's Physics Seminar will feature A. P. Stamp, Oxford University. His subject will be "Hartree-Fock States."

The seminar is set for today, Wednesday, January 3, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.

The security spotlight is on you.



Mrs. Wayne David Dawson

#### Vinyl Acetate Facilities Expansion Set In Texas

Plans for a 50-million-pound expansion of vinyl acetate manufacturing facilities at Texas City, Texas, were announced recently by Union Carbide. Full operation is expected in the first quarter of 1968. At that time, Union Carbide's total capacity will be in the range of 250 million pounds.

The capacity increase will be the first step in a multiphase expansion plan that will make available sufficient vinyl acetate to supply the growing requirement for this important monomer. Vinyl acetate is used extensively in coatings and adhesive resins and latices and as an intermediate in the manufacture of polyvinyl alcohol and polyvinyl butyral.

#### LIFE—NON-LIFE

"Life is not like physical things. Life itself keeps life going—if you use your car a lot, the car wears out and your legs get weak, but if you walk a lot, your legs get strong. The non-living wears itself out by work; but the living builds itself up. That's one of the great differences between life and non-life." Szent-Gyorgi



The New Year greets several Y-12ers celebrating important milestones of their own . . . with Union Carbide Corporation. Congratulations!

#### 20 YEARS

**William E. Spraker**, Arc Melting, January 2.

**Walter A. Sherrod**, M-Wing Shop, January 6.

#### 15 YEARS

**James H. Copeland Jr.**, Utilities Administration, January 3.

**Claude A. Boyd**, H-2 and F-Area Shops, January 4.

**Elbert G. Blanton**, Chemical Services, January 5.

**Homer F. Clayton**, Electrical Department, January 5.

**Peter P. Huffman**, Dimensional Inspection, January 5.

**Corbin A. Keck**, Arc Melting, January 5.

**Harold P. Perdue**, Production Analysis, January 5.

**Marshall W. Rickard**, ORNL Chemical Services, January 5.

**Gerald E. Carden**, Beta Four Heavy Machine Shop, January 6.

#### 10 YEARS

**Bill W. Dean**, General Machine Shop, December 23.

**Harold E. Doughty**, General Can Fabrication Shop, December 23.

**David W. Murrah**, 9215 Rolling, December 23.

**Jim C. Oody**, Material Specimen Shop, December 23.

**William H. Rollen Jr.**, Tool Grinding, December 23.

**Hubert M. Russell**, Dispatching Department, December 23.

**Marshall B. Biddix**, Tool Engineering, January 6.

**Denton E. Littleton**, Machine Maintenance, January 6.



**Will join car pool from West Knoxville to Central Portal, straight day.** Frances Young, plant phone 3-7207, home phone Knoxville 588-9779.

**Ride wanted or will join car pool from Dutch Valley Road, or Clinton Highway, Knoxville, to North Portal, straight day.** J. R. Johns, plant phone 3-5769, home phone Knoxville 689-5639.

**Ride wanted from U. T. area, Knoxville, to North Portal, straight day.** Jim McEver, plant phone 3-7216, home phone Knoxville 523-7560.

#### Y-12er Will Serve As Camera Club Prexy

The Carbide Camera Club will hold its first meeting of the year Tuesday, January 9, at 8 p.m. in the First Presbyterian Church.

Bill Harper, newly-elected president will assume office. Other than the Y-12er, the other officers are Bob Stone, vice president, and Peggy Turner, secretary.

A color slide show and recorded lecture by Robert Leatherman, fellow, PSA, will be presented and is open to the public. His topic will be "Tips on Handling and Photographing Animals and Birds."

The January competition "Hot or Cold" is designed to challenge member's ability to capture extremes of temperature.

Carry out your security assignment.



**UNION CARBIDE CORPORATION**  
NUCLEAR DIVISION  
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

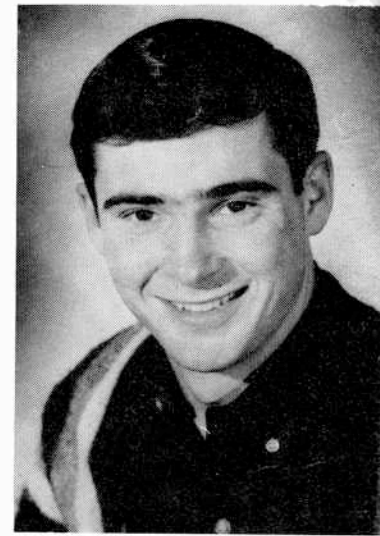
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Oak Ridge, Tenn.  
Permit No. 71

## Wade Son Set For Vietnam Duty As Oldest Son Completes Air Force Duty



PFC Warren E. Wade



Jimmie H. Wade

After visiting his parents, Mr. and Mrs. C. H. Wade, 928 Oglewood Avenue, Knoxville, Private First Class Warren E. Wade has entered special training at Camp Pendleton, California. He will be stationed there for about four weeks, then to Okinawa for two weeks, then on to Vietnam for a year.

PFC Wade took his basic at Paris Island, South Carolina where he received his rifle expert badge. He then transferred to LeJeune, North Carolina, where he received his pfc stripe.

Warren has excelled in many sports since his early childhood, starting with football with the Oak Ridge Boys Club, when he was only 10. He also played football for Fulton High School before his graduation.

The Wade's oldest son, Jimmie, recently completed his four years of service with the Air Force, being discharged as an Airman First Class. He was in photography during his entire four years, and received a letter of commendation for his photographic work at Dow AFB, Bangor, Maine where he spent two and one-half years.

In his last year of service, spent in Japan, he was a radio and television announcer for the Far East network. He was also commended for this work.

A graduate of Oak Ridge High School, Jim was a rifle expert while in service.

There is another son John at home.

The proud father is in Y-12's Buildings, Grounds and Maintenance Shops.



**EULA ESTES, MACHINE TOOL ENGINEERING**, joins the ranks of musky catchers as she pulls a 38-inch, 17 pound lunger from Norris Lake. Of course, husband Chester helped with the final land maneuvers.